

Here coods (v,r,o,e) are defined by dr=d+ \frac{12H}{12-F}dv = d+ \frac{1}{2M}dv, where \frac{1}{5}=1-\frac{2M}{r}.

We Schmarzschold metric in these coods reads

\[
\delta_{5}^{2} = -\frac{1}{5}dv^{2}+2\left[\frac{2M}{r}\dvdv+dv^{2}+v^{2}]\hat{1}^{2}.
\]

In the perence of a somological sontant Λ , 6P soodinates someonly be defined by looking at outgoing rodal timelike geoderics. However, when $\Lambda < 0$, such observes never reach the boundary so they do not before global soodinates. In other words, 6P soods somethe defined in amountation globally AdS spectimes. This disturion can be found in avxiv: 2006.10827v2.

However, it is possible to define Goods (v, v,0,4) in SAIS that resemble GP Goods

Were are given lay

and the sals metric in they loods reads
$$dS^{2} = -f dV^{2} + 2 \sqrt{r_{0}} dV dV + \frac{1}{2} dV^{2} + V^{2} dV^{2},$$
which in monotoping non-ingular at $V = V_{H}$.

Clearly $V = C_{0}$ that $g_{V} = \frac{1}{2+V^{2}} \neq 1$.

Let us now define the compactified radial dearthrate f as $V = \frac{2f}{2-f^{2}}$.

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We have
$$f = 1 + \frac{4f^{2}}{2-f^{2}} - \frac{V_{0}}{2f} \left(1 - f^{2}\right)^{2} = \frac{1}{2f^{2}} \left(1 - f^{2}\right)^{2} = \frac{1}{2f^{2}} \left(1 - f^{2}\right)^{2} + \frac{1}{2f^{2}} \left(1 - f^{2}\right)^{2} + \frac{1}{2f^{2}} \left(1 - f^{2}\right)^{2} = \frac{1}{2f^{2}} \left(1 - f^{2}\right)^{2} \left(1 - f^{2}\right)^{2} + \frac{1}{2f^{2}} \left(1 - f^{2}\right)^{2} = \frac{1}{2f^{2}} \left(1 - f^{2}\right)^{2} \left(1 - f^{2}\right)^{2} + \frac{1}{2f^{2}} \left(1 - f^{2}\right)^{2} + \frac{1}$$

Jo, in each
$$(v_{1},0,4)$$
,

 $3v^{2} - \frac{1}{(1-p^{2})^{2}}(1+p^{2})^{2}(1-\lambda(p))$,

When

 $9v_{p} = \sqrt{\frac{2!}{(1+p^{2})^{2}}}(1+p^{2})^{2} = \sqrt{\frac{(1-p^{2})^{2}}{(1-p^{2})^{2}}} \cdot \frac{2(1+p^{2})}{(1-p^{2})^{2}}$
 $= \frac{1}{(1-p^{2})^{2}}(1+p^{2})(1-p^{2})^{2} = \frac{4}{(1-p^{2})^{2}}$

and

 $9y_{p} = \frac{1}{(1-p^{2})^{2}}(1+p^{2})(1-p^{2})^{2} = \frac{4}{(1-p^{2})^{2}}$

The shall metric in $(v_{1}p_{1}o_{1}y_{1})$ soods reads

 $ds^{2} = \frac{1}{(1-p^{2})^{2}}(1-\lambda(p))dv^{2} + 4(1+p^{2})\sqrt{\lambda(p)}dv^{2}p^{2}$
 $+ 4\left[dp^{2}+p^{2}(d\sigma^{2}+shn^{2}odp^{2})\right]$

We see that v=count. while sin there soods are conformelly flat. Evolly we define sompetified soodnotes (v, x, y, z) where $x = p \in 0$ Compactified laterian 7 = I shot for y t = p show sing We have $j^2 = x^2 + y^2 + z^2 = 3$ $dp = \frac{1}{p} (x dx + y dy + z dz)$. The SAI) metric on these cools reads $dS^{2} = \frac{1}{(1-p^{2})^{2}} \left\{ -(1+p^{2})^{2} \left(1-\chi(p)\right) dv^{2} + 4 \frac{(1+p^{2})}{p} \sqrt{\chi} dv \left(x dx + y dy + z dz\right) \right\}$ + 4 (dx2+d22) with $\chi(\rho) = \frac{V_0}{2\rho} \frac{(1-\rho^2)^3}{(1+\rho^2)^2}$